ME 8: Containerization and Docker

Exercise 4: Sharing images

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I. Getting started

```
PS C:\Users\tingc> docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com
to create one.
Username: tbmortaba
Password:
time="2021-06-12T12:53:31+08:00" level=error msg="(ac2065b0) 73b4b6d1-CredentialHelperPKG C<-S No response POST /registry/credstore-up
dated (1.1669455s): Post \"http://ipc/registry/credstore-updated\": context deadline exceeded (Client.Timeout exceeded while awaiting
headers)[[STACK]]"
time="2021-06-12T12:53:32+08:00" level=error msg="(8005cd83) 73b4b6d1-CredentialHelperPKG C<-S No response POST /registry/credstore-up
dated (1.0079612s): Post \"http://ipc/registry/credstore-updated\": context deadline exceeded (Client.Timeout exceeded while awaiting
headers)[[STACK]]"
Login Succeeded
```

II. Finding images

```
S C:\Users\tingc> docker search kafka
NAME
                                                                                                                                               STARS
                                                                                                                                                               OFFICIAL
                                                                                                                                                                                 AUTOMATED
                                                                 DESCRIPTION
 wurstmeister/kafka
                                                                 Multi-Broker Apache Kafka Image
                                                                                                                                                                                  [OK]
                                                                                                                                                                                 [OK]
[OK]
 spotify/kafka
                                                                 A simple docker image with both Kafka and Zo... Apache Kafka is a distributed streaming plat...
                                                                                                                                               413
bitnami/kafka
                                                                                                                                                242
sheepkiller/kafka-manager
                                                                 kafka-manager
                                                                                                                                                204
                                                                 Docker image for Kafka manager

Apache Kafka. Tagged versions. JMX. Cluster-...

CMAK (previous known as Kafka Manager) As Do...

UI for viewing Kafka Topics config and data ...

http://kafka.apache.org/documentation.html#q...

Kafka and Zookeeper combined image

Kafka image required when running the Debayi
kafkamanager/kafka-manager
                                                                                                                                                124
ches/kafka
                                                                                                                                                                                  [OK]
[OK]
hlebalbau/kafka-manager
landoop/kafka-topics-ui
                                                                                                                                                36
solsson/kafka
johnnypark/kafka-zookeeper
                                                                 Kafka and Zookeeper Combined Image
Kafka image required when running the Debezi...
Lenses with Kafka. +Connect +Generators +Con...
Kafka exporter for Prometheus
Web based UI for Kafka Connect.
Latest Kafka - clusterable
debezium/kafka
landoop/kafka-lenses-dev
                                                                                                                                                                                  [OK]
danielqsj/kafka-exporter
                                                                                                                                                                                  [OK]
landoop/kafka-connect-ui
digitalwonderland/kafka
                                                                                                                                                                                  [OK]
                                                                 Kafka GUI to view topics, topics data, consu…
https://github.com/edenhill/kafkacat/pull/110
Deprecated in favor of solsson/kafka:cmak
                                                                                                                                                                                  [OK]
tchiotludo/kafkahq
solsson/kafkacat
 solsson/kafka-manager
solsson/kafka-prometheus-jmx-exporter
mesosphere/kafka-client
                                                                 For monitoring of Kubernetes Kafka clusters ... Kafka client
                                                                                                                                                                                 [OK]
                                                                 Kafka broker and Zookeeper image
Kafka Manger https://github.com/yahoo/kafka-...
Kafka Magic images
anchorfree/kafka
zenko/kafka-manager
digitsy/kafka-magic
                                                                                                                                                                                 FOK 1
zenreach/kafka-connect
                                                                 Zenreach's Kafka Connect Docker Image
                                                                 Apache OpenWhisk event provider service for ...
                                                                                                                                                                                 гок 1
openwhisk/kafkaprovider
PS C:\Users\tingc> docker pull spotify/kafka
Using default tag: latest
latest: Pulling from spotify/kafka
386a066cd84a: Pull complete
75ea84187083: Pull complete
Be2e387eb26a: Pull complete
eef540699244: Pull complete
1624a2f8d114: Pull complete
7018f4ec6e0a: Pull complete
6ca3bc2ad3b3: Pull complete
658810c91c6a: Pull complete
c8bd0e6d651a: Pull complete
d471f5c9f3f2: Pull complete
Digest: sha256:cf8f8f760b48a07fb99df24fab8201ec8b647634751e842b67103a25a388981b
Status: Downloaded newer image for spotify/kafka:latest
docker.io/spotify/kafka:latest
PS C:\Users\tingc> docker images
REPOSITORY
                           TAG
                                         IMAGE ID
                                                                   CREATED
                          latest
                                          6db9cd5f574f
delner/ping
                                                                   28 minutes ago
                                                                                              139MB
 ubuntu
                                          9ff95a467e45
                                                                   3 weeks ago
                                                                                               135MB
spotify/kafka
                          latest
                                          a9e0a5b8b15e
                                                                  4 years ago
                                                                                              443MB
```

III. Tagging images

```
PS C:\Users\tingc> docker tag delner/ping tbmortaba/ping:1.0
PS C:\Users\tingc> docker images
REPOSITORY
                 TAG
                           IMAGE ID
                                          CREATED
                                                           SIZE
delner/ping
                 latest
                           6db9cd5f574f
                                          31 minutes ago
                                                           139MB
                                                           139MB
tbmortaba/ping
                 1.0
                           6db9cd5f574f
                                          31 minutes ago
                 16.04
                           9ff95a467e45
                                          3 weeks ago
                                                           135MB
ubuntu
spotify/kafka
                          a9e0a5b8b15e
                                                           443MB
                 latest
                                          4 years ago
PS C:\Users\tingc> docker rmi delner
Error: No such image: delner
PS C:\Users\tingc> docker rmi delner/ping
Untagged: delner/ping:latest
PS C:\Users\tingc> docker images
REPOSITORY
                 TAG
                           IMAGE ID
                                          CREATED
                                                           SIZE
tbmortaba/ping
                 1.0
                           6db9cd5f574f
                                          32 minutes ago
                                                           139MB
                 16.04
                           9ff95a467e45
                                                           135MB
ubuntu
                                          3 weeks ago
spotify/kafka
                 latest
                           a9e0a5b8b15e
                                          4 years ago
                                                           443MB
```

IV. Pushing images

```
PS C:\Users\tingc> docker push tbmortaba/ping:1.0
The push refers to repository [docker.io/tbmortaba/ping]
7b1bd5700e14: Pushed
cdc4d0cd3d15: Mounted from library/ubuntu
43d05a2c9517: Mounted from library/ubuntu
1902cf049561: Mounted from library/ubuntu
9fe04650404a: Mounted from library/ubuntu
1.0: digest: sha256:1c9982f1564f2ac5409cabeada95c39b3ad11e0fc38f198529d080b111bafc89 size: 1361
```

